



Testing Laboratories, Inc.

940 South Harney St., Seattle, WA 98108 (206) 767-5060 FAX 767-5063

Certificate

Chemistry, Microbiology, and Technical Services

CLIENT: Alaskan Copper Works
P.O. Box 3546
Seattle, WA 98124
ATTN: Jim Brown



LABORATORY NO. 12193

DATE: Sept. 27, 1988

PO# M7178

REPORT ON: LIQUID

SAMPLE

IDENTIFICATION: Submitted 09/21/88 and identified as shown below:

Metro Waste Discharge ID# 9-21-3200-M7178

TESTS PERFORMED AND RESULTS:

parts per billion (ug/L)

| | <u>Sample</u> | <u>Method Blank</u> |
|-------------------|---------------|-------------------------|
| Trichloroethylene | <10.* | <1. |

*Comment

Sample was in a pint jar (not a VOA bottle) with approx. one-half inch of headspace.

The sample was very viscous and slightly colored. The sample was analyzed at a 1/1000 and a 1/10 dilution. An unsuccessful attempt was made to analyze the sample undiluted. The undiluted sample foamed in the purge vessel so the analysis was aborted.



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AKC-0015599

Laucks ⁸⁰ years

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LABORATORY NO. 12193

Key

< indicates "less than"

Respectfully submitted,

Laucks Testing Laboratories, Inc.


B. Gleason

BG:emt



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AKC-0015600

Chemistry Microbiology, and Technical Services

APPENDIX

Surrogate Recovery Quality Control Report

Attached are surrogate (chemically similar) compounds utilized in the analysis of organic compounds. The surrogates are added to every sample prior to extraction and analysis to monitor for matrix effects, purging efficiency, and sample processing errors. The control limits represent the 95% confidence interval established in our laboratory through repetitive analysis of these sample types.



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JOB No. 12193 DATE: 09/23/88

Sample No. B09236VD.WA1 Matrix: Water Analysis: GC-HALL

| Surrogate Compound | Percent Recovery | Comment | Control Limits |
|-----------------------|---------------------|---------|-------------------|
| 4-Bromofluorobenzene | 78 | | 76 - 121 |
| Bromochloromethane | 108 | | 73 - 125 |

Sample No. 1@1/10 Matrix: Water Analysis: GC-HALL

| Surrogate Compound | Percent Recovery | Comment | Control Limits |
|-----------------------|---------------------|---------|-------------------|
| 4-Bromofluorobenzene | 80 | | 76 - 121 |
| Bromochloromethane | 106 | | 73 - 125 |

JOB No. 12193 DATE: 09/23/88

Sample No. B0923GVD.WA1 Matrix: Water Analysis: GC-PID

| Surrogate Compound | Percent Recovery | Comment | Control Limits |
|-----------------------|---------------------|---------|-------------------|
| 4-Bromofluorobenzene | 105 | | 85 - 117 |

Sample No. 1@1/10 Matrix: Water Analysis: GC-PID

| Surrogate Compound | Percent Recovery | Comment | Control Limits |
|-----------------------|---------------------|---------|-------------------|
| 4-Bromofluorobenzene | 104 | | 85 - 117 |